

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Commissioner for Patents

**REVOCATION OF PRIOR POWER OF ATTORNEY
and
NEW POWER OF ATTORNEY**

Sir:

The undersigned, BIOGEN IDEC MA INC., a Massachusetts Corporation, assignee of the entire right, title and interest in the patent applications listed on the attached schedule A, hereby revokes all previous powers of attorney or authorizations of agents given in the patent applications listed on the attached schedule A, and any divisionals, continuing, substitute, renewal or reissue applications thereof, and appoints all practitioners associated with Customer Number:

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as assignee's attorneys or agents with full power of substitution to take any and all action necessary with regard to the identified patents and patent applications, and with regard to any divisionals, continuing, substitute, renewal or reissue applications thereof:

The undersigned, whose title appears below, is authorized to act on behalf of the assignee.

Please address all telephone calls to Allyson R. Hatton, at telephone number (617) 395-7000.

Please address all correspondence to the correspondence address associated with Customer Number:

76776

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine, imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

BIOGEN IDEC MA INC.

Dated: Dec 14, 2011

By: Bart Newland

Name:

Title:

BART NEWLAND

VICE PRESIDENT

CHIEF INTELLECTUAL PROPERTY COUNSEL

ASSIGNEE CERTIFICATION

Attached to this power are Certificates Under CFR 3.73(b).

Dated: December 20, 2011

/Allyson R. Hatton/
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SCHEDULE A**U.S. PATENT APPLICATIONS:**

APPLICATION NO.	FILING DATE:	ATTORNEY DOCKET NO.	STATUS
11/215,257	08/29/05	B2047-701021	Published
11/573,817	06/19/08	B2047-7013US	Published
11/573,823	04/18/08	B2047-7014US	Published
11/720,716	02/25/09	B2047-7015US	Published
11/719,660	11/20/08	B2047-7019US	Published
12/139,362	06/13/08	B2047-705110	Published
11/447,664	06/06/06	B2047-703223	Abandoned
08/342,642	11/21/94	B2047-703220	Abandoned
10/234,041	09/03/02	B2047-703222	Abandoned
08/488,182	06/07/95	B2047-703243	Abandoned
07/359,516	06/01/89	B2047-703230	Abandoned
08/480,843	06/07/95	B2047-703221	Abandoned
08/473,764	06/07/95	B2047-703246	Abandoned
08/477,463	06/07/95	B2047-703245	Abandoned
08/484,385	06/07/95	B2047-703247	Abandoned
08/486,336	06/07/95	B2047-703248	Abandoned
08/488,069	06/07/95	B2047-703242	Abandoned
09/943,659	08/31/01	B2047-700730	Abandoned
12/891,284	09/27/10	B2047-700423	Pending
09/557,092	04/21/00	B2047-702010	Abandoned
10/625,260	07/22/03	B2047-702021	Abandoned

APPLICATION NO.	FILING DATE:	ATTORNEY DOCKET NO.	STATUS
11/192,449	07/28/05	B2047-702022	Abandoned
11/586,441	10/24/06	B2047-702023	Abandoned
08/284,603	08/11/94	B2047-7003US	Abandoned
08/456,124	05/31/95	B2047-700330	Abandoned
11/634,822	12/06/06	B2047-700323	Abandoned
09/234,290	01/20/99	B2047-700520	Abandoned
11/103,362	04/11/05	B2047-700521	Abandoned
09/251,073	02/16/99	B2047-700220	Abandoned
11/169,171	06/28/05	B2047-700222	Abandoned
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10/170,841	06/13/02	B2047-701020	Abandoned
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08/374,331	1/18/95		Abandoned
08/456,193	05/31/95		Abandoned

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PATENT NO.	PATENT DATE:	ATTORNEY DOCKET NO.	STATUS
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6,482,409	11/19/02	B2047-700321	Granted
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7,157,086	01/02/07	B2047-700430	Granted
5,871,734	02/16/99	B2047-700221	Granted
5,272,263	12/21/93	B2047-703231	Granted